2013 MATE International ROV Competition, Explorer Class
CAETUS Company – Mansoura City, Egypt

Company Specification
Mansoura University – Faculty of Engineering
The international competition is 6821 miles away from Egypt.

Standing (From left to right)

Sitting (From left to right)
Sameh Galal (3rd ECE, Tether Man, Media, Electronics), Amr Mohammed (4th Mechanical Engineering, CEO, Pilot, Mechanical design and fabrication), Mohammed Hamdy (3rd ECE, CFO, Co-Pilot, Programmer).
Eng. Amira Magdy (Mentor), Dr. Mohamed Abdel-Azim (Mentor).

All company members participated last year except Mohamed Hamdy. CAETUS won the first place in the Egypt regional and 16th in the 2012 international competition in Orlando, FL, USA.

ROV Specification
ROV INFINITY

- The development expenses of the vehicle is $1310.6.
- The ROV consists from four main component groups:
  - The structural skids and extension are made of polyethylene, electronics container made of optically clear acrylic tube with two aluminum ends, and polyurethane foam bouncy.

- Total weight in air: 23 KG.
- Dimensions: The frame is 60 CM(L), 45 CM(W), 30 CM(H) and the extension is 50 CM(L), 45 CM(W), 15 CM(H).

- Safety and special features:
  - No sharp edges and completely shrouded thrusters.
  - Warning labels located near moving parts and electrical hazards, and safety rope.
  - 40A Main Fuse and 7A before each motor.
  - Kill-switch for emergency stoppage.
  - Stable and powerful control system mounted in a unique electronics container.
  - Powerful ROV GUI, and serial communication.